

Yi 2  
7400  
F 3

Introductory Lecture  
on the  
Certainty of  
Medicine.

Delivered Nov<sup>r</sup> 2<sup>nd</sup> 1795

& Nov<sup>r</sup> 28<sup>th</sup> 1798

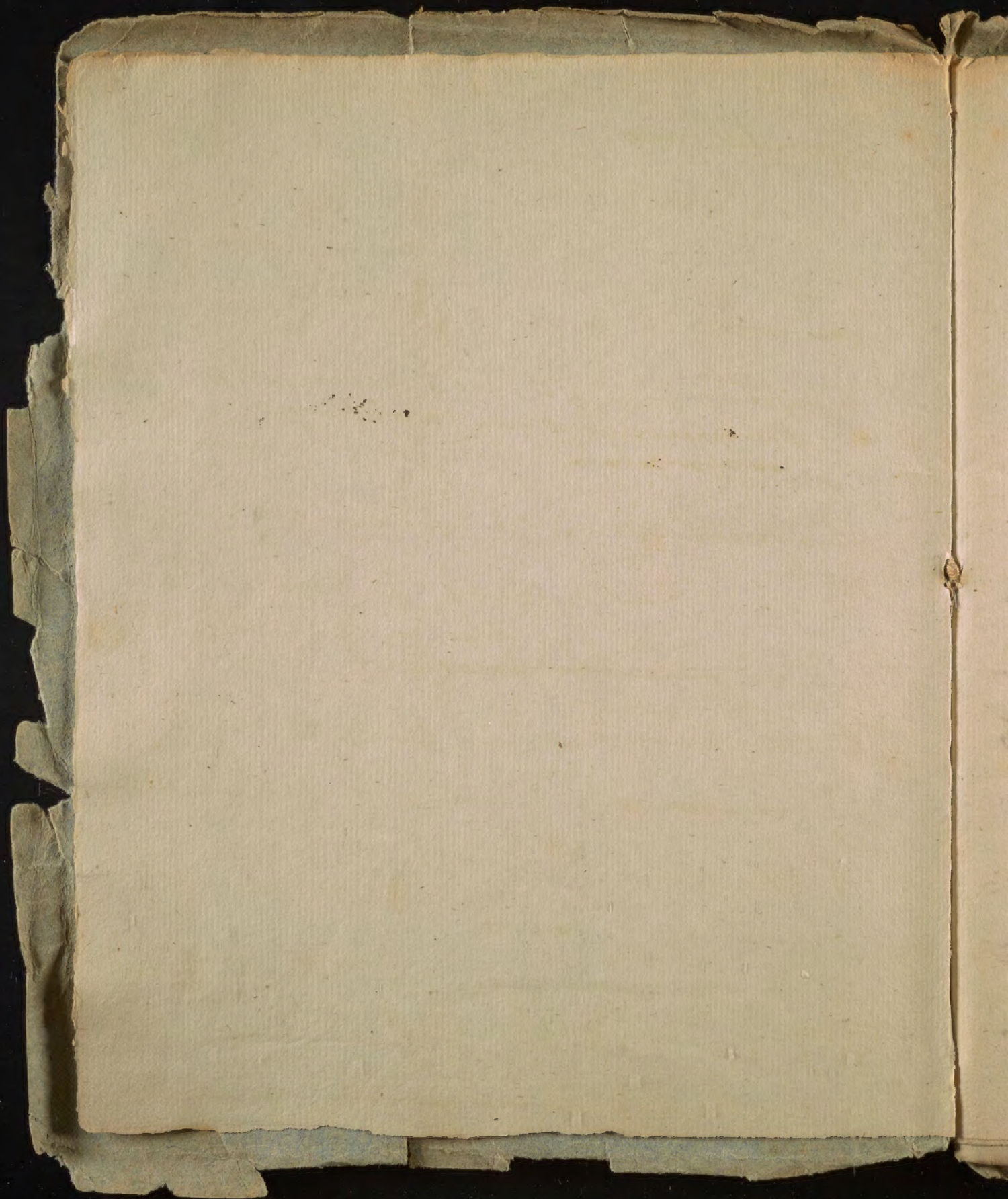






5







1  
Gentlemen,

The uncertainty of medicine  
~~has been~~ is a very common subject of  
complaint. It has been propagated  
by <sup>the enemies of our profession,</sup> ~~philosophers~~, and in many instances  
has been admitted by Physicians. The  
design of the present lecture is to in-  
quire <sup>how far the complaint</sup> ~~into the truth of~~ is founded in  
truth, and to show that it originates  
in ~~ignorance~~ a want of a due conception  
of the extent & usefulness of the science  
of medicine.

In speaking upon this subject  
we are first led to <sup>remark</sup> ~~mention~~ that  
<sup>number of truths</sup>  
immense ~~attainments~~ <sup>which</sup>



V<sup>o</sup> I all the different states of  
fever. I shall mention in this  
place, <sup>but two</sup> ~~only three~~ of them which  
when left to themselves <sup>generally</sup> ~~generally~~  
<sup>often</sup> prove fatal, but which in 99  
cases of out an 100 yield to medi-  
cine. These are the pleurisy - the  
Dysentery. & the <sup>intermittent</sup> ~~intermittent~~ fever.



have been <sup>discovered & established</sup> ~~made~~ in all the collateral  
sciences of medicine, particularly  
in Anatomy, Chemistry, Botany &  
the *materia medica*. ~~This must be admitted.~~

~~But~~ But as the objections to the certainty  
of medicine are aimed chiefly <sup>at</sup> ~~to~~  
the limited state of our knowledge  
of the art of healing, <sup>exclusive of surgery,</sup> I shall con-  
fine myself to a short detail of  
the diseases in which medicine af-  
fords certain & almost universal  
relief. —

These are <sup>✓</sup> ~~fewers~~ of all kinds. ~~Let~~  
~~it not be said here~~ I know it will  
be said here that fevers are often  
fatal. This ~~does not~~ must not happen  
while so many circumstances ~~oppose~~



fatal  
Disease ~~is~~ in every case,  
The universal one the source of  
the reproach of medicine now  
unlawful embraces ~~and~~ yields  
~~to~~ in every case to mercury.



3

~~from the ignorance & <sup>ignorance</sup> fears of patients  
oppose regular & just practice, but  
where these circumstances do not  
occur, fevers are as much under  
the command of medicine as the  
itch, or the small pox.~~

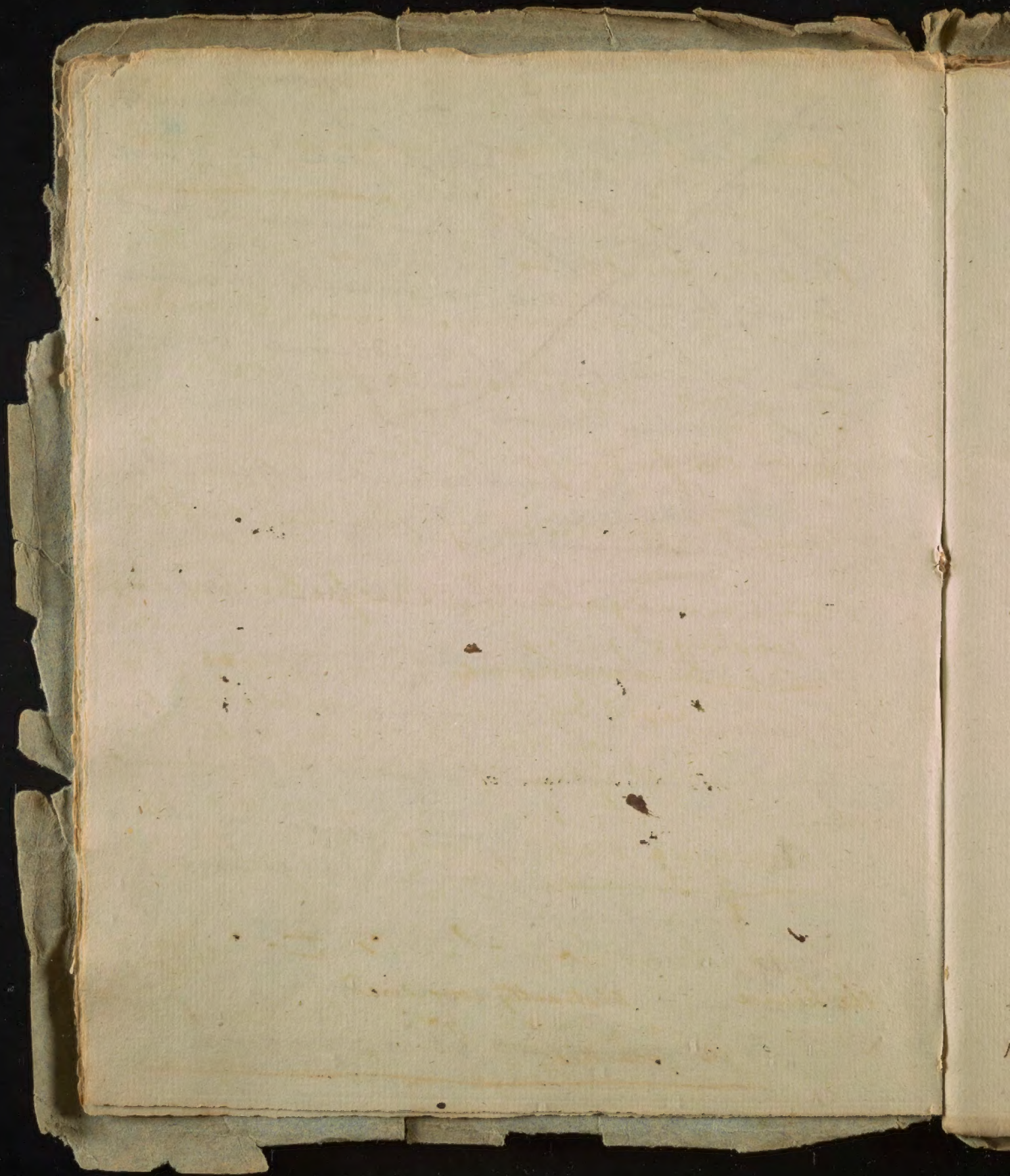
2 of the diseases which affect the  
nervous <sup>system</sup> ~~diseases~~, viz adneps, the Hysteria,  
the Hypochondriasis, and the locked  
Jaw, and several other convulsive  
affections are all more or less subject  
to medicine when it is applied in this recent  
State.

4 Cutaneous diseases yield in almost  
every instance to the power of medicine.

3. <sup>Hæmorrhages</sup> Dropsies in every part of the body  
~~have been~~ are daily prevented, or cured.

~~The benefits of~~ It is true the







some of 4  
practice in those Diseases, is not  
uniformly successful. ~~Some Physicians~~

But the fault ~~is~~ here lies with Physi-  
cians, & not in the Science of medicine.

It is no objection to the certainty  
and usefulness of the Compass,  
that the natives of Kamocatla  
still navigate their vessels by ~~long~~

~~coasting,~~  
~~going to sea~~, nor does the

<sup>used by</sup> characters of the Chinese, <sup>in writing</sup> call in  
the advantages of

Question, the summary mode of  
conveying ideas <sup>means of</sup>  
~~fixing Lessons~~ by an Alphabet.

I contend for the certainty of  
the Science <sup>abstractly considered</sup>  
of medicine, not for the certainty  
of that <sup>its practice</sup> knowledge ~~which~~ of the







5.  
~~propensity~~ as it <sup>is</sup> exercised by ~~many~~  
Physicians. many things concur  
to prevent the ~~advantages~~ of the  
discoveries which have <sup>been</sup> made in  
medicine from becoming generally  
useful; such particularly as  
the want of reading & observation  
among Physicians, and an indis-  
willingness <sup>new and unpopular</sup> to adopt <sup>remedies</sup> which  
~~are recommended by~~  
~~were introduced into persons~~  
~~to whose merit they are unwilling~~  
~~to do homage.~~ But this does  
not militate against the certainty  
of medicine, any more than



✓ The certainty of medicine is  
often limited by the want of  
fidelity or punctuality in patients  
in complying with the prescriptions  
of their physicians, & imperfectly  
seasoned by the inability of Physi-  
cians <sup>in sickly seasons</sup> to visit their patients <sup>at</sup>  
those hours in which alone their  
prescriptions can be applied with  
success. — The mortality prevalence  
of error in medicine <sup>moreover</sup> in a city or  
countryside <sup>sometimes</sup> often affects the influence  
of just & successful <sup>prevents</sup> practice in a city or coun-  
try, for as <sup>Physicians</sup> many of luminous  
minds often diffuse rays of



a man's shutting his eyes at  
noon days militates against the  
the arguments in favor of the ex-  
-istence of light. — But <sup>again</sup> ~~for this~~,

It is said ~~that medicine~~ by the  
enemies of <sup>our profession</sup> ~~medicine~~ that surgery  
is <sup>more</sup> ~~a certain~~ <sup>is therefore more useful</sup> ~~in the relief it affords~~

than medicine. This opinion is  
general, but a little reflection  
will show that it is not just.

~~The objects of surgery compared  
with those of medicine are  
in the ratio of one to twenty,  
of course that~~ How different is



knowledge into sick rooms which  
they are not permitted to enter,  
so Physicians of <sup>a contrary character,</sup> ~~Dark~~ <sup>eminence</sup> often  
spread their errors by means of their  
patients ~~or pupils~~, into rooms,  
where they defeat the best concerted  
plans of cure, & thus lessen the  
<sup>Success & credit</sup> ~~apparent certainty~~ of medicine.

~~[The mortality <sup>of diseases</sup> produced by all  
these causes does not detract from  
the certainty of medicine, for it be-  
-ongs to the perfection of our science  
to predict death <sup>with certainty</sup> from the neglect of  
~~proper~~ <sup>a proper</sup> remedies applied in their  
time, ~~or manner~~, as much as it  
- ~~does~~ to cure diseases. —  
Consultations are a further source~~



the issue of amputation or cutting  
 for the stone, to inoculation for  
 the small pox? & How far are  
 subject to the diseases which re-  
 sult from the former operations necessary  
 to save life? whereas the small  
 pox affects the whole human  
 Race; & according to some writers  
 destroys a 6<sup>th</sup> part of all who are  
 seized with it in the natural  
 way. But Surgery is not an  
 independant Art. It borrows  
 much of its certainty & useful-  
 ness from medicine, ~~for~~



of the uncertainty of ~~medicine~~ <sup>our profession.</sup> The  
boldness in practice which is inspired  
by the Union of reason <sup>in a man of genius,</sup> and experience,  
is often ~~defeated~~ <sup>frustrated</sup> by the mechanical  
formalities of an old, ~~and~~ or by the  
timidity ~~for teaching~~ of a young Physician,  
by which means medicine is often rob-  
-bed of its merited & well earned honors.  
But there <sup>are</sup> frequently two, or more methods  
of curing the same disease. Now in  
consultations between Physicians who  
have been in the habit of curing the  
same disease by different remedies, no  
fixed plan of cure is adopted, & the patient  
dies, under a half way practice between  
two methods, either of which might  
have cured him, had it been pursued



of Blending, Diet  
particularly from ~~Bark~~, wine  
and Opium.

I have said that the uncertainty  
of medicine has sometimes been  
admitted by Physicians. It may  
be useful in this place to inquire  
into the causes of this seeming  
Candor in the members of our  
Profession. It appears to originate  
1 in Indolence, or a disposition too  
torpid to inquire into the extent  
and certainty of the principles  
of medicine. ~~The body in this~~  
~~can evince upon the~~



to its full extent. The mortality of diseases, produced by all these causes, does not detract from the certainty of medicine, for it belongs to the perfection of our science, to predict death with certainty from the neglect, or misapplication of remedies, as much it does to cure diseases.

It has been said that there is no certainty in the operation of medicines. This assertion is founded upon a superficial view of the power of the medicines, & an ignorance of the laws of the animal economy. - I grant that ~~some~~ Ipecacuanha will not always excite a vomiting, nor Iulap<sup>unipolmly</sup> discharge the contents of the



2. A superstitious <sup>p. 9</sup> respect for preceptors  
in medicine, and ~~of~~ <sup>for</sup> eminent Physicians  
has contributed very much to ~~prevent~~  
the attainment of <sup>in</sup> ~~proper confidence in the~~ certainty of  
medicine. There are few diseases more  
easily explained, or more certainly cured,  
than the internal Dropsy of the brain, <sup>in its early stage,</sup>  
but it is generally considered as incurable,  
<sup>only</sup> ~~only~~ because Dr Cullen has not classed it  
among inflammatory diseases, and  
because Dr Monro has declared that  
he never cured a case of it in his  
life. —







mind, & abstracts from it all  
its ~~natural activity~~. for

~~2~~<sup>3</sup> Incapacity is another source  
of scepticism in medicine. men  
deny the existence of truths which  
they are unable to comprehend.

~~2~~<sup>4</sup> Envy in the ~~4th~~<sup>2d</sup> place shuts the  
mind up against ~~believing in the~~  
certainty ~~of medicine~~ <sup>the truths</sup>  
of medicine, more especially when  
discoveries are made in it by persons  
who are competitors for business  
or fame.

~~2~~<sup>5</sup> Vanity has a large share of  
influence in disposing physicians



bowels, but this does not invalidate  
~~the certainty of their characters~~  
of medicines, <sup>but if</sup> ~~for~~ we are able to  
account for the failure of their  
~~tell us all cases the~~ <sup>refute</sup>  
Operation, ~~is all so~~ we ~~destroy~~ the  
objection to the ~~uncertainty~~ <sup>now</sup> of  
their character as medicines. We  
know that ~~even~~ inflammation, <sup>and</sup> ~~or~~  
congestion in the brain impart  
a torpor to the Stomach & alimentary  
canal, and this knowledge consti-  
tutes a part of the uncertainty of  
medicine for which I am contending.  
Thus a knowledge of the variations of  
the ~~comp~~ magnetic needle in certain lati-  
tudes constitutes a part of the perfection  
of the science of navigation. — go back to p. 6.



to deny the Certainty of medicine.

~~as a man~~ This Scepticism in

medicine presupposes that a Physician

has examined the <sup>arguments in</sup> ~~evidence of~~  
<sup>favor of certain</sup> opinions, and that his decision

is founded upon a defect of evidence  
 to support them. Now this being

seldom the case, the decision ~~is~~  
 should by no means operate against the Certainty of medicine.

~~an act of imposture equally~~

~~characteristic~~  
~~declaratory of vanity & impudence.~~

~~I have sometimes~~ Did these

medical Sceptics when they

speak of the Uncertainty of

medicine, confine themselves







to the first person of the singular  
number, they ~~had~~ would be more  
excusable, but when they include  
the whole profession by declaring  
as they often do upon difficult  
subjects that "we know no-  
thing about them" they <sup>add to</sup> ~~discover~~  
a degree their vanity a large share  
of impudence.

The <sup>6th</sup> source of scepticism is medicine  
is derived from infidelity <sup>in</sup> religion.  
— men who have renounced the  
evidence of their reason & senses  
upon moral & theological subjects,  
are cannot be consistent upon







Without denying this evidence  
upon medical subjects. This  
Scepticism in medicine is extremely  
flattering to the Sceptics in Religion,  
~~and hence we find Secular physi-~~  
~~cians are often preferred by them.~~

~~They~~ It is natural for such persons  
to conclude that if, in a science <sup>all</sup> to  
whose facts are obvious to our  
senses, there is ~~some~~ no certainty;  
equal or greater uncertainty  
must hang over the doctrines  
of Christianity.

Having pointed out the sources  
~~from whence so much of~~  
Scepticism in medicine, it will  
among Physicians, I shall only







~~be natural to expect the most~~  
~~improvement.~~ The most obvi-  
~~ous~~ <sup>mention</sup> one of its most obvious effects,  
 and that is the most palpable  
fraud. [With what face <sup>does</sup> ~~can~~  
 a Physician charge for services  
 which he has rendered at random  
 to his patients? <sup>of a Physician</sup> Why does not  
 the <sup>hand</sup> ~~hand~~ <sup>traveller</sup> in writing  
 a prescription for a disease  
 of which he confesses himself to  
 be ignorant? <sup>what</sup> and with <sup>face</sup> ~~face~~ does  
 a Physician ~~charge~~ charge for services  
 which he has rendered at ran-  
 -dom to his patients? <sup>should</sup>  
~~we employ an Asti~~ ~~should~~ an



V  
~~John~~ ~~head of~~ A Clergyman in  
One of the West India Islands ~~was~~  
was <sup>once</sup> sent for, from a card table to  
visit one of his parishioners who  
was dying, & who it was told him  
was in great distress about his  
future state. The Clergyman visited  
him, and upon returning to his  
seat at the card table, was ~~asked~~  
by one of the company how he had  
left ~~his~~ the dying man. He said  
"quite happy" for he <sup>had</sup> removed all  
his fears in a moment by letting  
him into the secret." — "What secret"  
said the gentleman — "Why — that there  
is no future state answered the Clergyman,



Artificer after <sup>14</sup> failing in ~~building~~ <sup>erecting</sup>  
a piece of machinery  
~~a house, tell his employer,~~

~~that he knows less and pays~~

tell his employer that he was  
ignorant of the business he had  
undertaken, ~~would he be~~ what

should we think of him? would  
~~be~~ we justify an extravagant charge

for his labor, or would we not  
rather approve of that sentence

of a Court, which should ~~compel~~  
punish him as an impostor

by compelling him to make  
restitution for the money he

had ignorantly expended? V  
~~Let the scepter in medicine act~~



and that religion was all nothing but  
a fable. equally criminal is that  
Physician who <sup>exercises the profession</sup> ~~denies the certainty~~  
~~of medicines~~ of medicine, and denies  
its certainty in most of ~~the~~ the dis-  
-cases which come under his notice.

I have <sup>heard of</sup> ~~known~~ a Physician <sup>to of</sup> ~~whom~~  
extensive business & reputation to ~~all~~ whom  
~~all that has been said upon~~ <sup>all</sup> the causes  
of Scepticism in medicine, that have  
~~all of that~~

been enumerated, applied in the  
most extensive manner. ~~This~~  
~~reputation~~ This man's education  
was originally very slender, and  
his reading extremely limited. ~~His~~  
~~visits to his patients were short, &~~  
~~by~~ generally all subjects were



honestly. If he cannot attain  
 to principles in it, let him resign  
 the profession. He is at  
 a speculative sceptic in medicine  
 may be not an honest man,  
 but a <sup>sceptical</sup> physician who exercises  
 the profession for his subsistence  
 is as much an impostor as a  
 person who exercises the functions  
 of a Priest without believing  
 in the principles of Christianity].

We have already attained to  
 certainty in at least 9 diseases out  
 of ~~ten~~ ten. But this remnant  
 of <sup>premature</sup> ~~partial~~ the dominion of death



more agreeable to him than  
medicine. He hurried from sick  
rooms to public dinners, and  
teaparties, where he usually  
spent four or five hours of every  
day, ~~and yet with these this charac-~~  
~~ter, he decided upon all subjects of~~  
~~controversy he maintained for me~~  
~~the~~ In all companies he spoke  
with contempt of the profession of  
medicine - and laughed at every  
attempt to apply the reason to  
it. And yet with this character,  
he <sup>for many years</sup> maintained <sup>the</sup> governed  
medical <sup>the</sup> opinions & practice of the city in  
which he lived: a Brother Importor



over the human body, shall not al-  
ways continue. Absolute certainty  
I believe  
is attainable in medicine. Yes - there  
does not exist a disease for which  
there does not exist a remedy. -  
This must be true, or God would  
not be ~~kind~~ <sup>powerful or good.</sup> wise, ~~kind or just.~~

Hear this ye friends & Benefactors  
of mankind, who have sighed in  
secret over the ~~pain~~ misery which  
diseases ~~have~~ produce in our world.  
- ~~Let~~ This misery shall have an end.  
~~Death shall be~~ The empire of death  
by means of disease shall shall  
one day be limited, & old age shall



in medicine pronounced his Elogium  
when he died, by declaring "that  
he was the greatest physician  
that ever lived, for that he knew  
& acknowledged the Uncertainty of his  
profession". —

✓ will moreover be able by  
means of this knowledge to be  
~~able to distinguish~~ ~~to prefer~~ <sup>to prefer</sup> real physicians,  
rational & philosophical physicians,  
& to prefer them to  
~~to~~ Quacks and Impostors.



finally be the <sup>only</sup> 17 out let of human Life.

This <sup>Certainly</sup> ~~perfection in the science of~~  
~~medicine~~ I ~~believe~~ <sup>probably</sup> will be brought  
about in the ~~the~~ following ways. —

1 The knowledge of ~~med~~ the prin-  
ciples of medicine will become so  
general that the people at large  
by knowing,  
will avoid the remote, predisposing  
& exciting causes of diseases. They ✓

2 The principles & ~~power~~ operations  
of Chemistry will be so enlarged,  
as to enable mankind by heat &  
~~mixture~~ to destroy the active  
qualities of the remote causes of  
diseases by ~~the~~ those powerful







Agents - heat & mixture. - al-  
 ready has Chemistry taught us many  
 things upon this subject. It has  
 taught us that fire will destroy  
 the Contagion of the small <sup>pox</sup>, and  
 water the ~~miasmata~~ & contagious  
<sup>and miasmata</sup> of the plague & yellow fever. I  
 have heard a gentleman of a  
 philosophical character in London  
 ridiculed for saying that he believed  
 "the time would come when a  
 man should be able to put his  
 head in the fire without being  
 burnt". I do not think there is  
 any thing unphilosophical in  
<sup>or extravagant</sup>



✓ knowledge it has been justly  
said is power, and philosophy  
is the empire of Art over Na-  
ture. — [Drumheller, <sup>of New York</sup> in a late  
~~publication~~ has suggested many  
ingenious hints upon the subjects  
of the gaps which may lead us  
to the certain means of destroying  
them, & thereby of exterminating  
malignant & contagious ~~poison~~ <sup>poison</sup> from



the opinion. ~~The~~ <sup>Did</sup> we not see  
 men breath & ~~see~~ act as usual  
 under water by means of the diving  
 bell? To breath & to ~~act~~ live under  
 water by means of a diving bell,  
 and to fly through the regions of  
 the air in a balloon, a century  
 ago would have been thought  
 equally improbable events a cen-  
 -tury ago. <sup>Such of</sup> I have long belie-  
 -ved that the <sup>of the old & new testam-  
=ments</sup> prophecies, as relate  
 to the <sup>future changes in</sup> natural state of man,  
 and of our earth, will be brought  
 about by natural means.  
 There is to me therefore nothing



the catalogue of human evils.

+ Locke X. 19.

<sup>ly</sup>  
V<sub>3</sub> a Belief in the Unity of disease, and of  
debility being the predisposing cause of all its  
different forms will lead both <sup>patients &</sup> physicians  
to attack them in their forming state, at  
which ~~the~~ time they <sup>generally</sup> ~~often~~ yield to the most  
simple medicines. But where diseases come  
on as some do, without the premontory symp-  
toms of debility, ~~the doctor~~ if we may judge from  
there is reason to ~~believe~~ believe they may be cured  
if we are permitted to judge of ~~what~~ from what  
is proper <sup>that which</sup> of ~~what~~ is to come. go to p 22



improbable in that declaration  
of our Saviour to his disciples, in  
which he says "Behold, I give you  
power to tread ~~on~~ serpents, & scorpions  
and all the power of the enemy, &  
nothing shall by any means  
hurt you" <sup>the declaration</sup> whether it <sup>is</sup> be viewed  
by a philosophical, or a Christian  
eye. ~~It seems~~ There can be no:  
thing in the poison of <sup>serpents or</sup> scorpions,  
more ~~so~~ destructive to life than  
arsenic, and <sup>yet</sup> that deadly mineral  
~~we know~~ is rendered harmless by being com-  
bined with sulphur.

✓ ~~Suppose to know edge says D. H. H. H.~~  
~~bin is~~ <sup>know</sup> Philosophy is the expi-  
<sup>is</sup>







~~As to over compass nature.~~

### ~~3 Diseases that~~

The 3<sup>rd</sup> and last method in which medicine shall ~~be~~ brought to perfection will be, that diseases will in all cases yield to medicine.

Then the diseases which we call <sup>I have said</sup> ~~not cure~~ are very few compared

with those which do cure, ~~and~~

nor is this all, the diseases w<sup>ch</sup>

still elude the ~~as~~ skill of Physicians

are by no means so formidable,

as those which have been sub-

dued by them. The Epilepsy







offers much less violence to the  
 system than a yellow fever, and  
 this disease we now know is  
 daily cured by not only by  
 Physicians, but by the nurses,  
 other persons <sup>less</sup> unacquainted with medicine,  
 and ~~free negroes~~. Within the  
~~last twenty years~~ the our faith  
 & hopes upon this subject, receive  
 great encouragement from  
 the triumphs of medicine within  
 the last twenty years. ~~farmers~~  
 The ~~Seniors~~ are <sup>much</sup> less mortal ~~say~~  
~~the difference between 20 & 30~~ now  
 than they were <sup>30</sup> years ago.

The Locked Jaw has ceased to



*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*



in some measure to

23

be the terror of the planters in  
the several those West India  
Islands in which the tonic  
remedies have been adapted.

The pulmonary consumption  
has been cured where a belief  
of its being a chronic pleurisy  
has led to the <sup>early use of</sup> ~~early use of~~ copious, or fre-  
-quent use of blood letting. Dropsies  
& hemorrhages have been much  
less fatal since they have been  
considered & treated as symptoms  
of a general fever. The gout  
is no longer considered as the  
approach of our art. It has

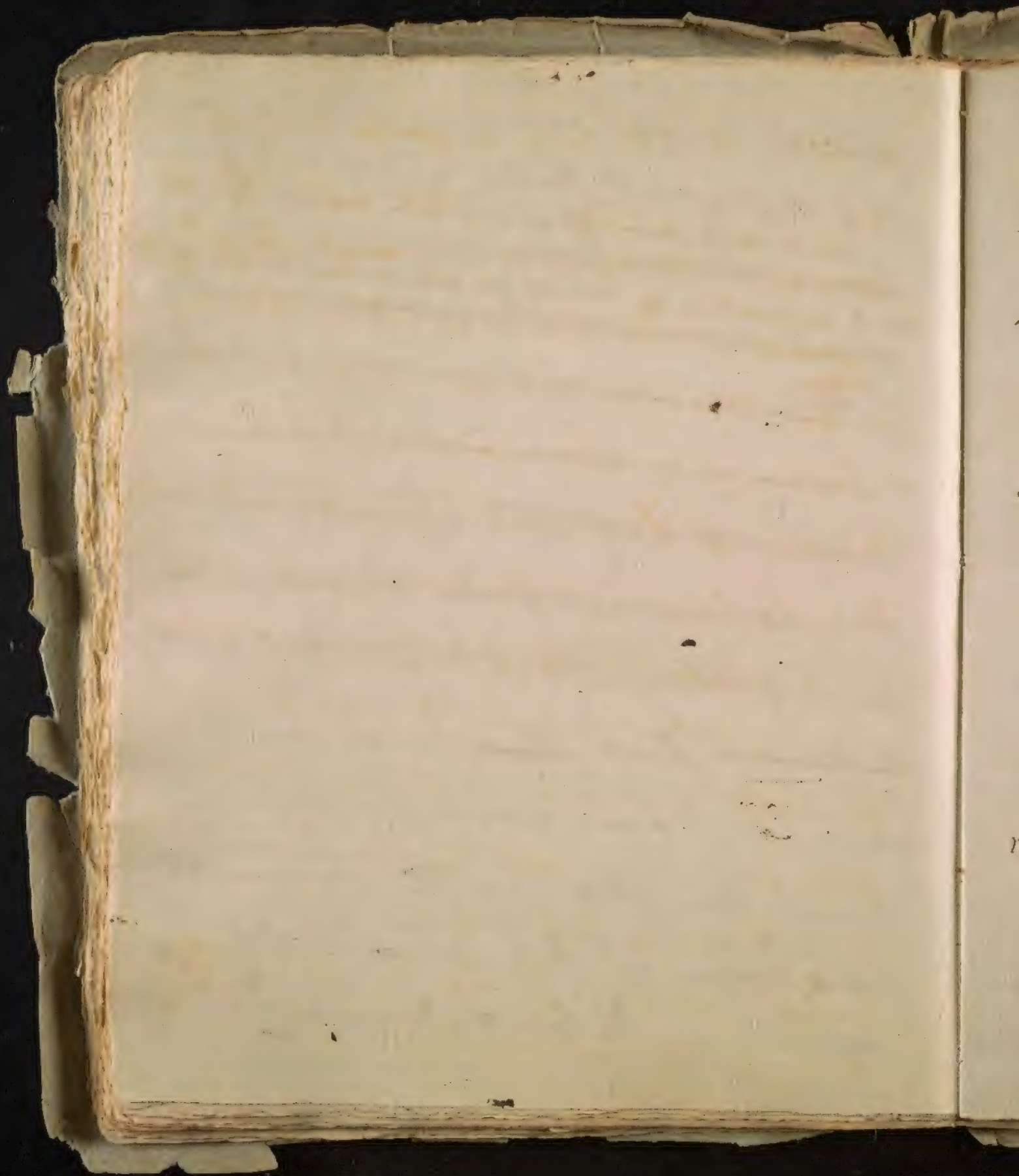






yielded to the same remedies as  
 the different states of fever. Cancers  
 are as easily prevented as any other disease, by the  
~~have lately been deprived in a~~  
 early extirpation of tumors, in glandular parts of the  
~~great degree of their now deadly~~  
~~body.~~  
~~influence upon human life by~~  
~~means of a medicine which ap-~~  
~~pears to act specifically upon~~  
~~the extreme vessels thereby dis-~~  
~~posing them to a new & healthy~~  
~~action.~~ But these modern dis-  
 -coveries have gone further. They  
 have taught us to revive the  
 motions of life where they  
 appeared to be extinguished by







death. Hitherto ~~scarcely~~ resuscita-  
-tion has been confined only to  
persons who have ~~been~~ long been  
supposed to be dead from Drowning  
or by <sup>from</sup> other accidents. But the time  
I believe will come, when the  
labors of Science & humanity will  
be employed in recovering persons  
who appear to die from fevers  
many other causes. [The particularly  
~~from~~ ~~fevers~~] we are authorized to adopt  
this opinion ~~not~~ by the <sup>discovered</sup> ~~press~~  
which have lately been made of the  
production  
cause of animal life by stimuli,  
and by the light which <sup>observations &</sup> ~~dispositions~~







26  
upon <sup>the</sup> external appearance of  
have lately thrown upon ~~the~~ <sup>the</sup> cause of  
~~death~~ <sup>the</sup> and internal appearance  
of the body after death from fevers.  
motion which is one of the operations  
of life, certainly takes place after  
respiration ceases, and after persons  
who <sup>have had</sup> ~~die~~ of fevers, are supposed to be  
dead. This is evident in the accumu-  
-lation <sup>of heat in</sup> ~~of heat in~~ particular parts  
in the absorption, & diffusion of <sup>signifying</sup> ~~water~~  
of the body & in the change of the  
fluids -  
countenance from a gloomy, to a  
pale form, in the occasional  
appearance ~~of~~ of a red color  
in one, or in both the cheeks, &  
& in ~~any~~ the diffusion of a yellow



21

22



color after the whole, or a part  
of the body. This <sup>last appearance</sup> was frequently  
observed in the yellow fever in the  
year 1793 in persons after death  
who did not discover the least tinge  
of yellowness upon their bodies before  
they died. But this motion in the  
surface of the body has gone <sup>on</sup> ~~off~~  
further. ~~After death~~. Sweats have  
sometimes been observed to take  
place for many hours, & in one  
instance which several days after  
death. It occurred in the case of  
<sup>a lady</sup> ~~Miss Henry the celebrated actress~~  
~~who~~ died in this city <sup>last winter</sup> ~~in 1794~~ <sup>the</sup>







maniacal state of fever. <sup>The</sup> ~~his~~  
 Stiffness of the Limbs which so  
 soon succeeds death, is probably  
 in many cases, the effect of <sup>general</sup> ~~conv~~  
 convulsion, and may hereafter  
 be discovered to be nothing but a  
 chronic Spasm of the muscular  
 system. — The internal appa-  
 -rances of the body after death  
 from fevers, still more favours the  
 idea of the possibility of extending  
 the benefits of resuscitation to <sup>in</sup> ~~the~~  
 persons ~~cases~~ supposed to be dead from ~~fevers~~.  
 those diseases. ~~It is many dispositions~~  
~~show the organ visera to be sound~~







29.

Death from fevers I shall say here -  
after occurs from one of the three  
following causes. <sup>namely</sup> 1. The  
~~effusion of~~ <sup>disorganization of parts</sup>  
~~blue serum or blood into organs~~

whose actions are essential to  
<sup>except of morbid excitement, congestion, ~~pus~~</sup> in:  
life by, ~~the effusions of blood,~~

= inflammation, or mortification.

<sup>ly</sup> 2 from such a change in the fluids  
as renders them unfit for the  
purposes of life, and <sup>ly</sup> lastly, from  
the total exhausted state of the excite-  
ment & excitability of the system  
which renders it incapable of  
being acted upon by the stimulus  
of medicine. Death from the







two last cases rarely occurs in acute fevers which terminate in 3, 5, 7, 9, or 11 days. Dissections <sup>Death</sup> show, that in nearly all cases of ~~fever~~ from fever, the viscera are in a state of ~~inflammation~~ disorganization, but in many cases this disorganization is very trifling, & in some cases in which marks of congestion have appeared in the viscera during sickness, there are no appearances of disorder after death. Now in all these cases of small disorganization, or of the total absence of it, the remedies for resuscitation might probably be used with success,







for the excitement of of the system  
 is suspended only, and not exhausted,  
 and therefore might, by proper means  
 be ~~very~~ easily restored. I suspect  
 this ~~to be the case~~ case, to take place,  
 in all those cases in which death  
 occurs in the paroxysm of a fever,  
 or in the sudden absence of fever, &  
 in after the use of powerful emetics  
 or purges, or too stimulating diet.

Under the influence of these opi-  
 -nions, I am disposed to believe  
 that <sup>many thousands</sup> ~~millions~~ of people ~~who have~~  
 have been buried alive in all ages  
 & in all countries. —

~~Less~~ were it possible for







us to be ignorant of the waking  
 state which necessarily follows sleep,  
 we should consider the restoration  
 of a <sup>man</sup> ~~human creature~~ from a  
<sup>recumbent posture</sup> ~~prostrate~~ state, in which <sup>most of</sup> all the  
 functions of the body, & all the  
 faculties of the mind were sus-  
 pended, to ~~as~~ <sup>his</sup> ~~exact~~ the sudden  
 use of reason and limbs, as  
 an event equally <sup>improbable</sup> ~~incredible~~  
 with the resuscitation of a  
 body apparently dead from a  
 fever. — go to p. 35

[Said history does not  
 inform us which of the proge-  
 nitors







of the human race was the longest  
 liver, but I have sometimes  
 thought the survivor

<sup>the 4<sup>th</sup> vol. of my medical</sup>  
~~In my introductory lecture~~  
~~of last year~~ I mentioned an opinion

of Dr Hastley's upon the subject of  
~~propagation of Christianity by~~  
~~the advancement of medicine to~~

means of the science of medicine  
 to which I then yield my full

consent. He supposes that the  
 healing art will be brought to  
 such perfection that missionaries

into pagan & mohammedan countries  
 shall recommend & establish  
 the doctrines of Christianity by



✓ already has this prediction of Dr Hartley's  
in part  
unfulfilled. In one



34  
performing ~~similar~~ cures by  
natural means, such as the  
Apostles performed by superna-  
tural power. ✓ Yes - I believe

they will not only ~~cure~~ the  
"plagues, and heal all manner  
of diseases", but that they will  
by means equally natural,  
persons who are supposed to be  
raise the dead. — These tri-

umphs over sickness & the grave,  
easily or cheaply  
will not be accomplished. without

a great expense of labor & ~~money~~ <sup>subject</sup>

time. So they will probably ~~expose~~  
the authors of them to the same  
reproachful epithets to which





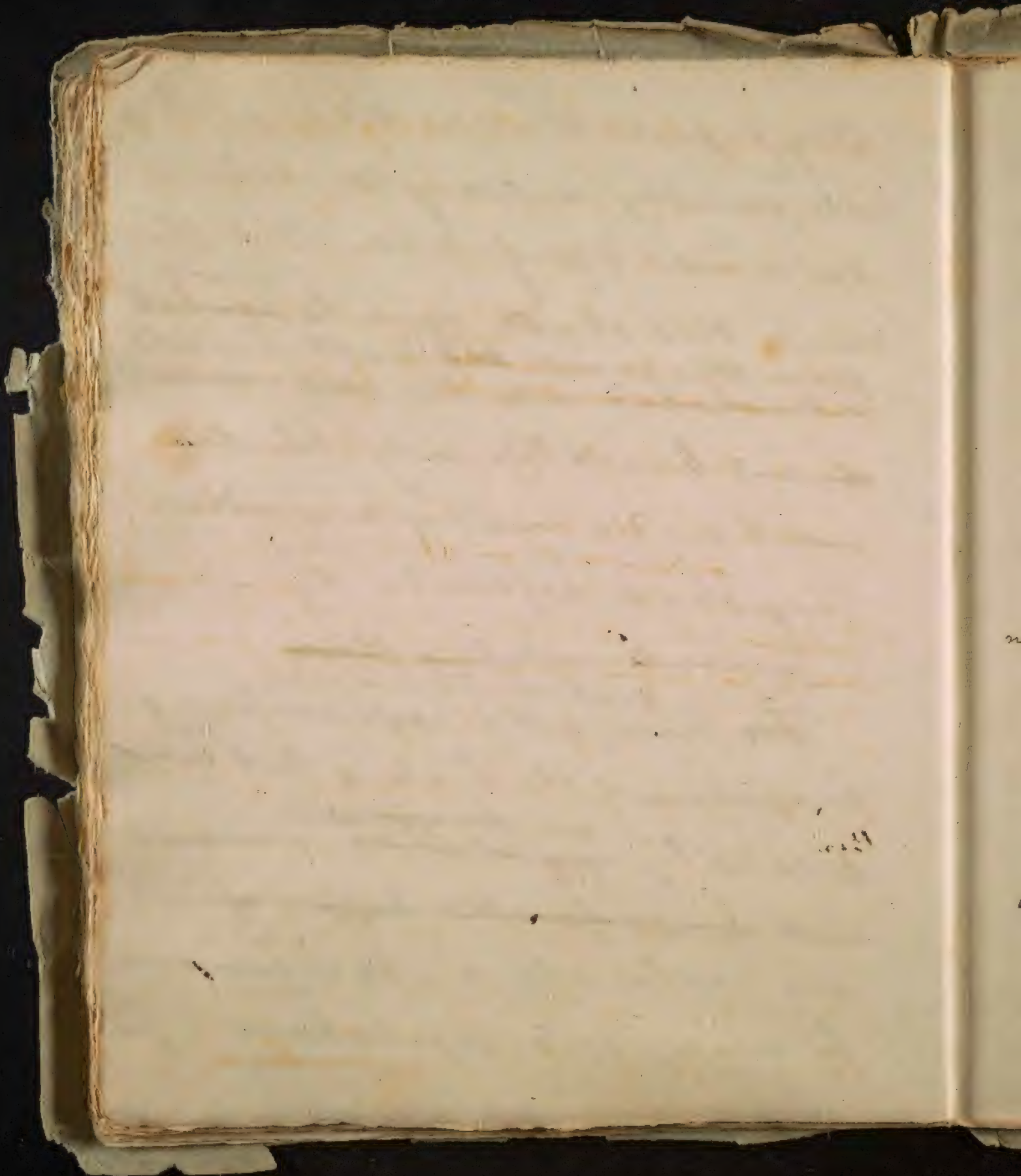


35

they exposed the apostles, for they  
will <sup>be</sup> equally contrary to received  
opinions & prejudices. But the  
minds that shall dare to <sup>wrest</sup> combat  
from the grasp ~~that~~ death his cold  
~~with descend into the cold regions~~  
of and breath life prey, shall  
~~not~~ have no dread of persecution.  
They shall rejoice in it. —

~~In contemplating these~~  
<sup>the</sup> ~~this~~ <sup>gift which I have given</sup> view of the approaching  
perfection of the healing art is not  
dictated by <sup>an imagination</sup> ~~my wishes~~ ~~massed~~  
~~with desires for the happiness~~  
my wishes alone. It is <sup>alike</sup> consonant  
to reason and revelation. In







contemplating the delightful change  
it will introduce into the state of  
our world, the heart swells with  
the most delightful emotions.

Then shall ~~earthly~~ <sup>immortal</sup> Epidemics  
~~no more shall~~

cease to desolate our cities. Hos:

Hospitals shall cease to be perpetual  
Lamentos the gem of finer and tears shall

prisons to the sick - ~~Tears shall~~  
<sup>no longer</sup> ~~cease~~ to follow ~~to~~ relations & friends to a  
cease to flow The lingering pains  
premature grave.

of Land Grief for the premature

death of friends & relations, shall  
then

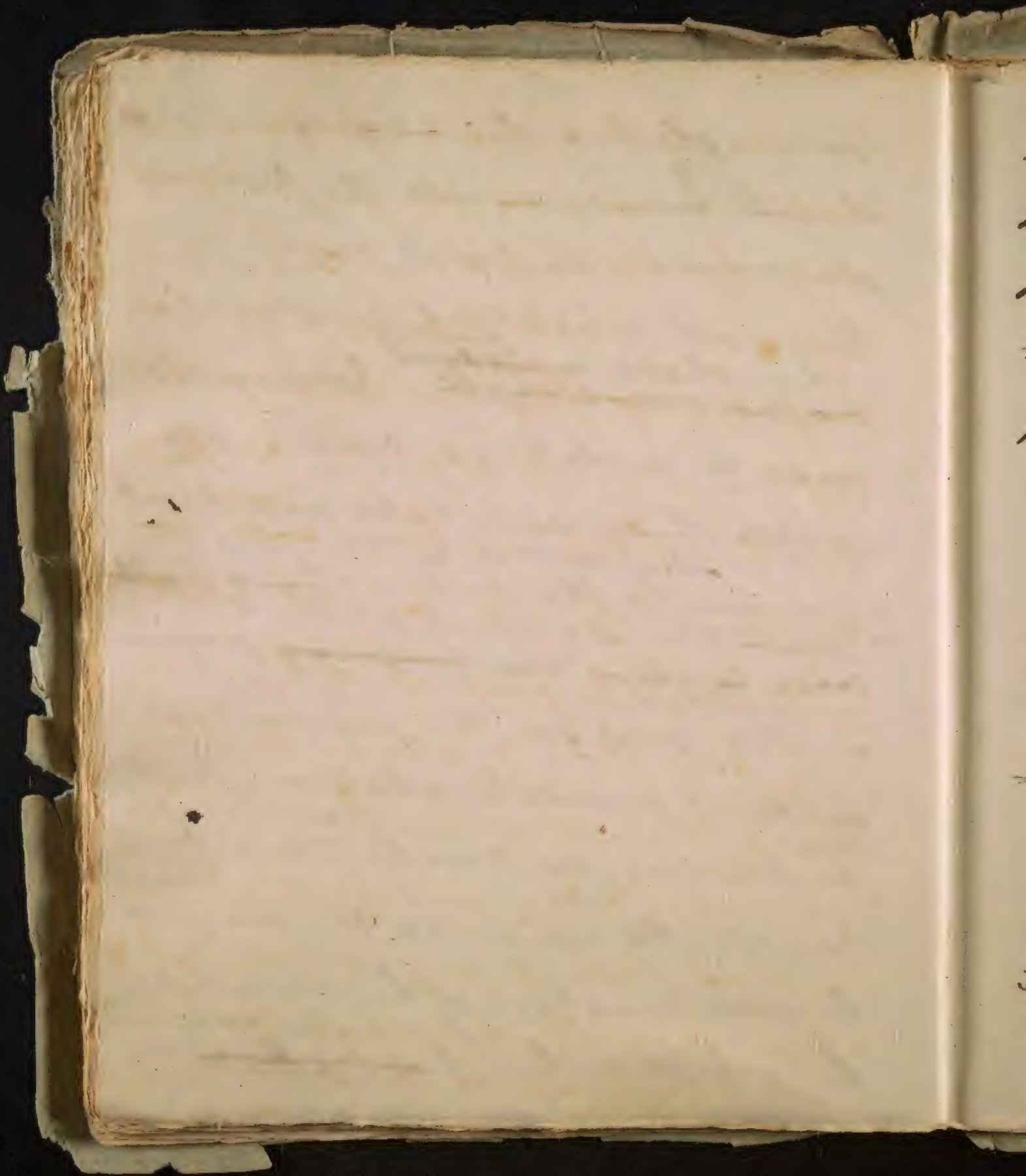
be known no more. Here I am

tempted to repine at the present

limited duration of human life.

Long before this happy <sup>revolution</sup> ~~day~~ in







the health & happiness<sup>37</sup> of mankind  
shall arrive, ~~as to~~ you & I gent.  
shall be no more. — But a con-  
-solation is still left us under the  
pressure of this mortifying tht.  
— If we cannot share in the hap-  
-piness which we have <sup>deserved</sup> ~~anted~~ for  
our posterity, we can at least  
contribute to produce it, by devo-  
-ting our time & talents to the  
improvement of our science. [The  
we have lately shaken off an  
immense load of prejudices and  
error upon the subject of govern-  
-ment. Let us do the same thing







with prejudice & error in medicine.  
Let us abandon the humble bargains  
in which we have begged <sup>our native</sup> the  
shore, and venture upon voyages  
of circumnavigation ~~is~~ ~~is~~ ~~is~~  
~~before~~ many new remedies remain  
yet to be <sup>discovered</sup> tried, and the extent &  
force of old ones, remain yet to be  
determined by new experiments.  
The Baths of water, oil, air  
and even, Earth have hitherto been  
but feebly & partially applied in  
diseases. We are acquainted with  
but our knowledge of the extreme  
force of heat, <sup>is pasties</sup> ~~is pasties~~ in which  
I include Cansties & boiling water as



V The active benefits to be derived  
from <sup>of</sup> the proper direction of the  
active <sup>faculties</sup> principles of the mind, &  
above all particularly from <sup>of</sup> the  
principle of association remain  
yet to be examined & applied to  
medicine.



39  
well as <sup>blistering</sup> ~~Spanish~~ flies as is as yet  
limited by <sup>ancient</sup> habits of & forms of  
prescription. Frictions, Exercise  
& even labor, as remedies are  
equally administered by ancient  
measures. <sup>Let us</sup> ~~It becomes us to forget~~  
all that we learned upon these &  
other articles of the Materia medica,  
and ~~take them again~~ <sup>to</sup> prescribe  
them in doses ~~and~~ that shall accord  
with our present Systems of medicine.  
We have too long hugged the our na-  
-tive shores of <sup>in medicine</sup> ~~ignorance & prejudice~~.  
Let us attempt a voyage of cir-  
-cumnavigation in medicine. The  
prejudice which has lately attended the



V and mercury which once so ~~for~~<sup>tempting</sup> to  
sick people, has become in many families, a  
common domestic medicine. ~~Let us be~~  
~~encouraged by the~~



more general & copious use <sup>to mercury</sup> ~~extension~~ of the remedies of blood letting  
in malignant fevers,  
~~in this city~~, should encourage us  
to ~~the more liberal use~~ <sup>similar in frequency in the</sup> of other

remedies. — The prejudices against  
the lancet will ~~now~~ <sup>now</sup> sleep with  
the fears which formerly prevailed  
against cool air, & cold water in

fevers, <sup>✓</sup> for the same ~~was~~ Physicians  
who a few years <sup>ago</sup> ~~with~~ <sup>with horror</sup> ~~beheld~~ <sup>with</sup> a  
stream of blood flowing from the

arm of a patient <sup>with</sup> ~~in certain fevers,~~  
<sup>it was</sup> ~~with a kind of~~  
~~obscure~~ <sup>it was</sup> ~~forbidden~~ <sup>by Allen & Brown</sup>

now, prescribe the loss of pounds  
of blood in the same fevers with  
=out fear, and with nearly univer-  
=sal success. —







To ensure the certainty that  
has been predicted in medicine,  
it will be necessary to investigate  
and establish principles in our  
Science. ~~But~~ <sup>even</sup> were it possible  
for a Physician to attain to  
the "antichurian age", & to add  
~~a certain~~ collect facts during  
the whole of that time, they  
would be useless to him un-  
less they were <sup>combined</sup> ~~connected by~~ &  
arranged by means of princi-  
ples of some kind. Experience  
without ~~the~~ philosophy in



✓ Senses are employed to judge between  
truth & error. — Connected



medicine, is nothing but empiricism, and however much the  
 contradictions of theories, <sup>or the uncertainty of human Reason in</sup> may be  
<sup>medicine</sup> complained off, I <sup>am</sup> satisfied ~~maintained~~  
 that there are more contradictions  
 to be met with in books  
 upon <sup>those</sup> ~~the~~ subjects of which <sup>in</sup> ~~the~~ ~~are~~  
~~obvious to the senses of Physicians.~~  
~~There are in all professions certain~~  
~~cant words which are used to~~  
~~impose upon the credulity of~~  
~~mankind. [Conscience insuligin,~~  
~~honor is war, and liberty is~~  
~~have been the long been employed~~  
~~governments have all been con-~~  
~~= played~~







for this purpose in religion -  
 was, & government. <sup>word</sup> ~~The~~ ~~these~~  
Experience has been the pros-  
 titute of medicine. [connected  
 with ~~theory~~ <sup>the science of medicine</sup> principles, ~~it~~ may  
 be compared to the ~~stately~~ pillars  
 of a magnificent building, but  
 without them, it resembles  
 the materials of the same build-  
 -ing scattered in a confused man-  
 -ner in a yard, so that the relation  
 of ~~no one~~ <sup>none</sup> of them to each other  
 can be known. It is by means  
 of principles in medicine that  
 a Physician can practise with

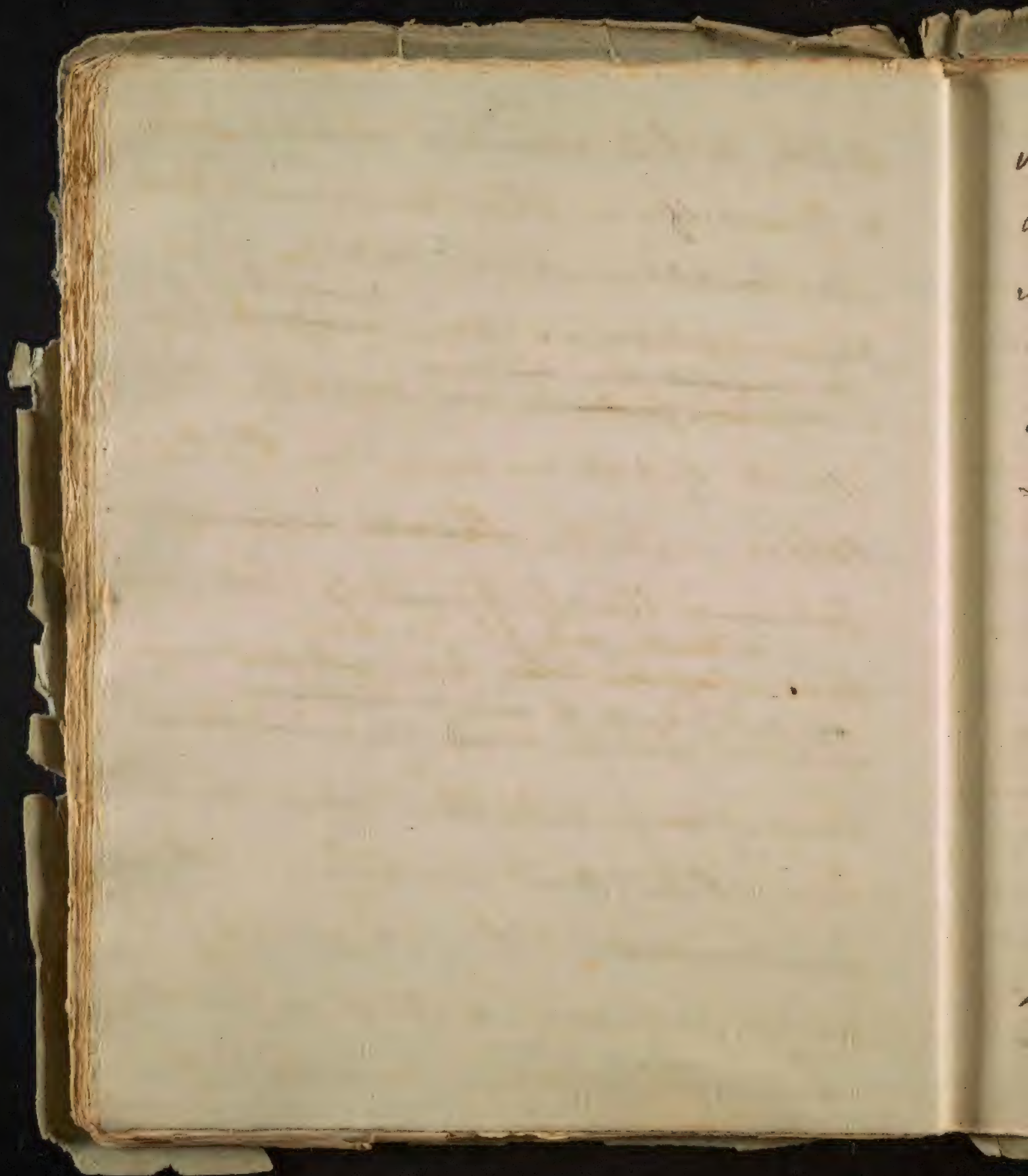






safety to his <sup>patients</sup> practice or satisfaction  
to himself. — They impart bold-  
ness to alternately to all his  
prescriptions. They <sup>enable him</sup> inspire him  
~~to unfold the diffidence~~  
~~with confidence in~~ supply the  
want of experience in all new  
cases. — ~~They elevate him above~~  
~~fatigue teach him to look~~  
~~down upon the~~ <sup>with contempt</sup> ~~harmful dulness~~  
~~of and pomp of~~ <sup>medicine</sup> ~~professions.~~  
~~and impudence of quacks, and~~  
~~irregularity whether they ever~~  
~~use their arts with or without~~  
~~diplommas.~~ They elevate him  
above fatigue, and support  
him under the druggery, mor-  
tifications







of the profession. — Between such  
a Physician, and the mere plodder  
in medicine, there is the same  
difference, that there was between  
Sir Isaac Newton after he com-  
pleted his discoveries in light &  
colors, and the Artist who manu-  
factured the glasses by which  
<sup>illustrious philosopher</sup>  
that ~~established~~ exemplified his  
principles in optics. — After  
this account of the necessity, &  
advantages of principles in medicine  
you will not be surprised Gent:  
at my declaring, that my duty  
and inclinations unite to



V<sup>th</sup> But in this arduous business, I shall  
not labour alone. I anticipate the  
most vigorous support ~~from~~ to my  
principles from the doctrines which  
will be taught from the ~~chemical~~  
Chair <sup>of Chemistry & materia medica</sup> by my colleagues  
~~by my very former pupil Dr Wood:~~  
~~& Dr Barton~~  
House. I congratulate the late gent. ~~upon his~~  
~~appointment.~~ I know <sup>the</sup> his talents &  
qualifications <sup>of those gentlemen</sup> ~~to be equal to~~ <sup>their</sup> ~~the~~  
I am not afraid to promise forthwith  
that they will not disappoint the expec-  
tations of his friends & the public. —

We live gent. in a revolutionary  
age. Medicine has caught the spirit  
of the times. The system of Dr Boerhaave  
which had subjugated the greatest part  
of Europe & all America, yielded about 30  
years ago to the system of Dr Fuller. Its  
~~triumph was of short duration.~~



as far as possible 46 philosophy  
determine me, to teach the ~~thing~~

of medicine from this Chair. I

know the difficulty of the Under-

taking. <sup>✓</sup> This great man's ~~this~~

~~The Physicians of Great~~  
~~Empire in medicine, have~~  
~~present day are nearly divided~~  
~~lately been disputed by the ingenious Dr.~~  
~~between the systems of Dr. Brown:~~  
Brown.

~~of them~~  
~~One is altogether erroneous, and~~  
~~no one of them is altogether true.~~

~~It shall be my business to as~~

~~far as I am able, to expose~~

~~the~~  
~~their errors, & to establish the~~

~~truths contained in each of these~~

~~systems~~  
~~I shall And to supply their defects~~  
by the detail of principles which



business and ~~business~~, I shall not  
labour alone. I anticipate ~~both~~  
a vigorous <sup>to my principles,</sup>  
~~instruction and support~~ from the  
doctrines which will be taught by <sup>my former pupil</sup>  
~~present~~ from the chemical chair by my  
the Professor of Chemistry, who will  
former pupil Dr Woodhouse.  
~~tomorrow~~ I congratulate you gent.  
~~of the whole republic of science~~ I know  
upon his appointment. His talents  
and qualifications <sup>to be</sup> are equal to it, and I  
not afraid to promise <sup>for him</sup> that he will  
not disappoint the expectations of his  
friends or the public.

We live in a revolutionary age.  
medicine has happily caught the spirit  
of the times. Dr Brown has demolished  
the system of his immediately predecessor  
Dr Cullen, but <sup>without</sup> ~~has~~ substituted  
~~nothing~~ better one in its room.



have been the result of the observations, and, — { I am not ashamed thus publicly to acknowledge, } of the mistakes both in principle & practice, of ~~five~~<sup>more</sup> and ~~thirty~~<sup>more forty</sup> years. — In this difficult

[ But who am I, or what <sup>thus</sup> were my Father, that I should attempt to teach new principles in ~~possession to expose a single error~~, <sup>medicine?</sup> ~~or to establish a single truth in~~ <sup>gent.</sup> ~~medicine?~~ — Ascribe not <sup>the</sup> boldness of the Undertaking, ~~to or~~ <sup>on</sup> ~~the force of its execution,~~ to any thing in the faculties of my mind gent. different, or superior to your own, but resolve it wholly







sovereign

48

into the pleasure of that Being,  
who often makes use of weak in-  
struments to accomplish the  
purposes of his goodness to man-  
kind, in order <sup>thereby</sup> to ~~prevent~~  
a competition for the honor of  
such events, between his power  
and that ~~talents~~ of his creatures.  
Thus a ~~shep~~ Shepherd boy with  
a sling and a stone, destroyed the  
pride and strength & pride of a  
formidable Army, and thereby  
became the instrument of saving  
a whole nation.] —

From a review of the subject







From a review of the subject <sup>of</sup> this lecture  
of this lecture, Gent: I <sup>am</sup> natu-  
rally led to conclude <sup>with</sup> by ad-  
-dressing to you a few ~~articles~~ the  
following reflections. —

1 ~~For~~ Has certainty been attained  
in the cure of <sup>apart of the</sup> ~~any~~ diseases, <sup>of the human body;</sup> then ~~can~~  
~~to be~~ study those diseases, & their remedies  
carefully, otherwise you will be crimi-  
-nal in not being able to cure them.  
~~These~~  
~~Physicians are~~ ~~all~~ always culpable

~~who~~  
2 If certainty attainable in the cure  
of all diseases, then renounce every  
pursuit that ~~shall~~ <sup>can</sup> interfere with  
~~your studies, and endeavours to~~  
<sup>your exertions</sup> ~~open their~~ <sup>mortality.</sup>  
~~reduce the number of those diseases.~~







~~which still~~ <sup>Subject of</sup> It has long been a  
 controversy among Divines, whether  
 perfection be attainable in morals <sup>in</sup> ~~is~~  
~~this world~~. - ~~It is~~ However this con-  
 -troversy may be decided, I <sup>advance</sup> ~~am sure~~  
 the belief of it is calculated to moral  
 Order & happiness in the world. In  
 like manner a belief in the certainty  
<sup>medicine</sup> ~~or profession~~,  
 of ~~medicine~~ is calculated to promote  
 its improvement & perfection <sup>in medicine</sup>.  
~~the perfection of or profession.~~

Much of your future ~~success~~  
 & comfort in Life Gent: will depend  
 upon the manner in which you  
 employ the approaching season  
 for instruction. I have heard





*Handwritten text, possibly a signature or date, written in brown ink.*

*Handwritten text, possibly a signature or date, written in brown ink.*

*Handwritten text on the right edge of the page, possibly a signature or date.*



It said that every barrel of sugar  
manufactured in the West Indies  
costs a human life. — with equal  
certainty I fear it may be said that

every dollar and evening that <sup>are</sup> ~~is~~

<sup>improperly</sup> spent by a student of Physic at ~~a~~  
~~a place of~~ ~~theatre~~, will cost the life

a patient. ~~It is~~ <sup>not</sup> <sup>my</sup> business

to decide upon the morality or im-

morality of <sup>public</sup> ~~these~~ amusements, but

as far as they employ money that

might be applied to purchase medi-

cal books, or time that might be

employed in reading, or <sup>studying</sup> ~~revising~~

lectures the subjects of the lectures of

the day, they ~~also~~ <sup>certainly</sup> are <sup>criminal</sup>







in a  
 to the Student of medicine. Read - think -  
 think - observe - observe - think  
 and read. — I submit all my opinions  
 to your strictest examination. I do  
 not ask, for any more I <sup>Do not</sup> ~~will not~~  
<sup>wish there to be</sup> ~~admit of being~~ <sup>being</sup> adopted,  
 unless they are thoroughly examined,  
 and perfectly understood. With these  
<sup>remarks</sup> ~~declarations~~, I resume the labors &  
 studies of the winter, <sup>I have only to</sup> ~~earnestly hoping~~  
<sup>imploring the great Preserver of man,</sup> ~~that it may please the Father of~~  
 add my best wishes that we may each of us be  
<sup>enabled</sup> ~~enabled~~ to conduct each of us ~~to~~  
 conducted by the hand of heaven, this <sup>of lectures</sup>  
 to the conclusion of ~~our~~ course in  
<sup>comfortable circumstances of health</sup> ~~the same state of health~~ in which  
 & other things  
 we have begun it. —









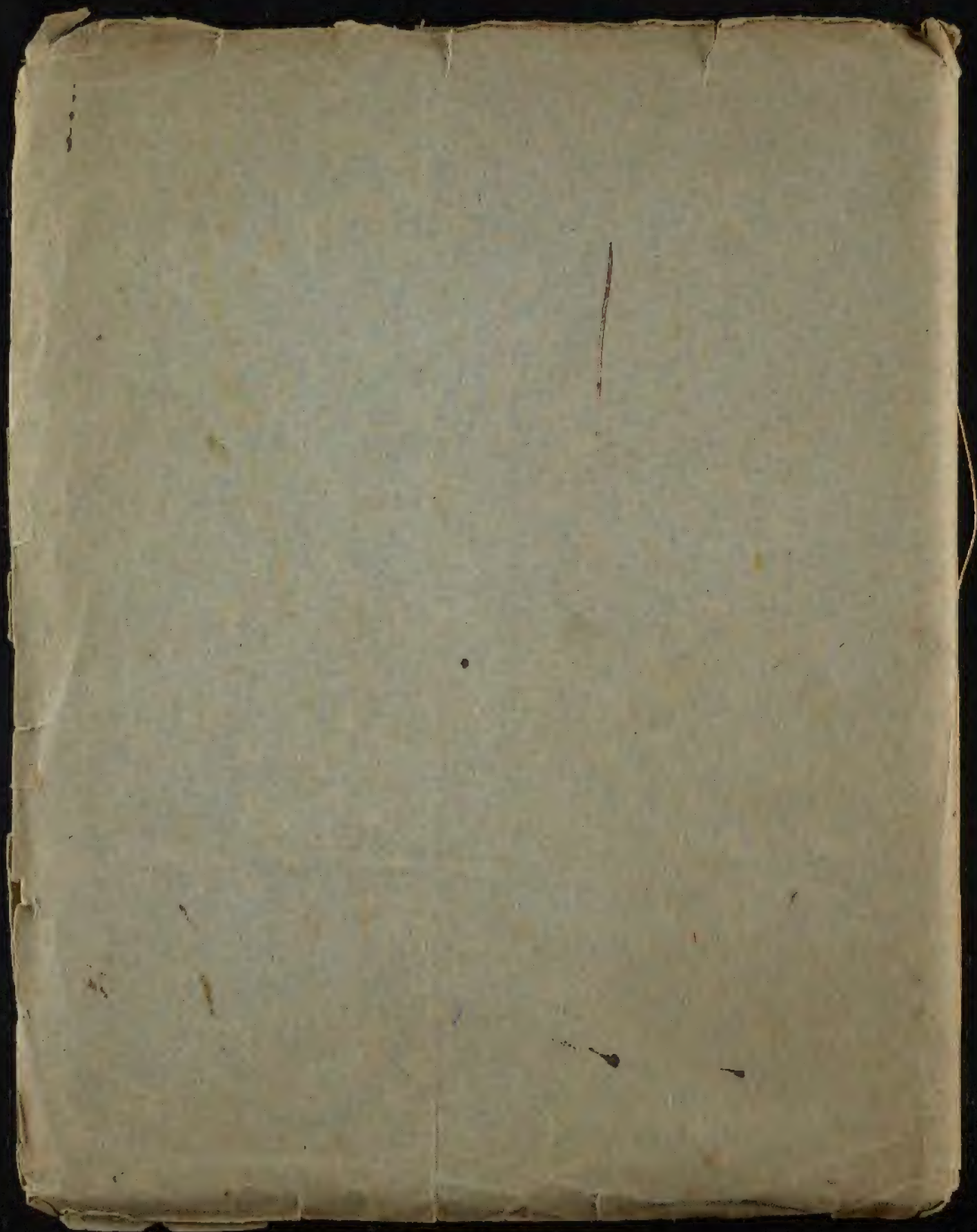














Y:2  
7400  
F 10

1807

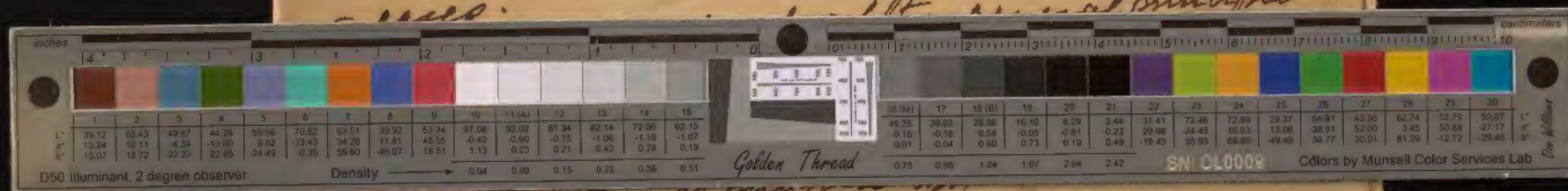
Lyfing  
manuscript

Gentlemen

The course of lectures you are  
now assembled to hear will consist of  
what are called the Institutes of Medicine &  
the practice of Physic.

In the Institutes of Medicine are in-  
cluded Physiology - Pathology & therapeutics.  
- Physiology considers the functions of the  
body in its healthy state.  
Pathology considers the causes & seats of dis-

ease.



The progress of disease, to particular  
be unfolded by therapeutics, to particular  
diseases - to their symptoms, & to the  
debility which precedes & follows them.  
I shall begin with Physiology. I am  
aware that this important branch of



Y 2  
7400  
F 10

1807

~~engings~~  
notebook

Gentlemen

The course of lectures you are now assembled to hear will consist of what are called the Institutes of Medicine & the practice of Physic.

In the Institutes of Medicine are included Physiology - Pathology & therapeutics.

- Physiology considers the functions of the body in its healthy state.

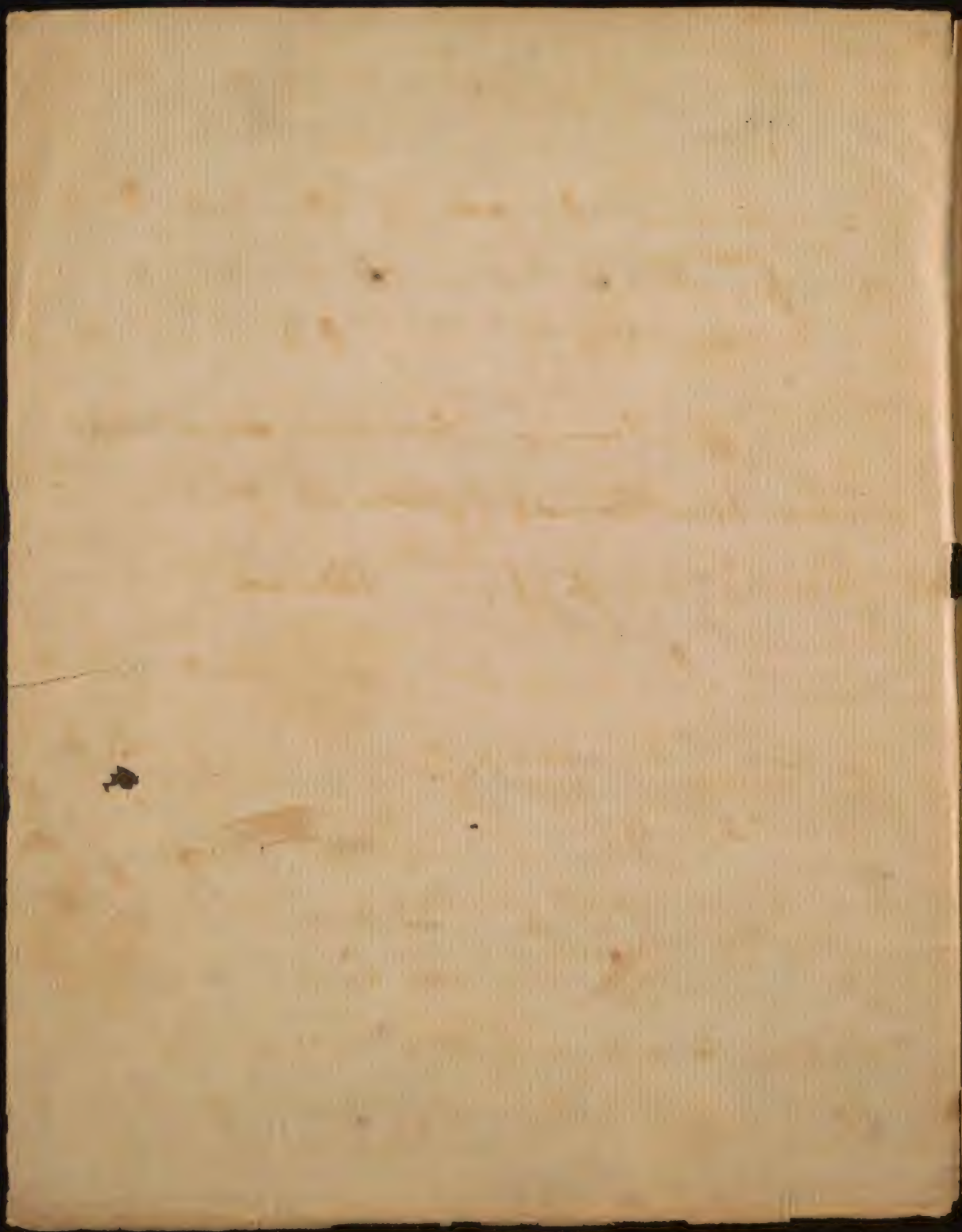
Pathology considers the causes & seats of diseases.

Therapeutics treats of the general principles of or indications of cure in diseases.

The Practice of Physic applies remedies to unfolded by therapeutics, to particular diseases - to their symptoms, & to the debility which precedes & follows them.

I shall begin with Physiology. I am aware that this important branch of





b  
v  
h  
s  
C  
S  
=  
h  
K  
i  
v.  
D  
/



branch of medical Science is considered as  
uncertain by some physicians & as useless  
and dubious by others. The late Dr Wm.  
Hunter <sup>has even</sup> treated it with contempt in  
one of his introductory lectures. But  
gent: ~~the Science should not suffer~~  
~~from this cause.~~ ~~For~~ I maintain  
its usefulness from ~~what~~ the in-  
=ense services it has rendered to  
all the branches of medicine. The our  
knowledge of the circulation of the blood,  
is a part of physiology, and how  
extensive has been <sup>the</sup> ~~its~~ application of this  
discovery to Surgery and the practice of  
physic! our knowledge of the uses of





1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
16.  
17.  
18.  
19.  
20.  
21.  
22.  
23.  
24.  
25.  
26.  
27.  
28.  
29.  
30.  
31.  
32.  
33.  
34.  
35.  
36.  
37.  
38.  
39.  
40.  
41.  
42.  
43.  
44.  
45.  
46.  
47.  
48.  
49.  
50.  
51.  
52.  
53.  
54.  
55.  
56.  
57.  
58.  
59.  
60.  
61.  
62.  
63.  
64.  
65.  
66.  
67.  
68.  
69.  
70.  
71.  
72.  
73.  
74.  
75.  
76.  
77.  
78.  
79.  
80.  
81.  
82.  
83.  
84.  
85.  
86.  
87.  
88.  
89.  
90.  
91.  
92.  
93.  
94.  
95.  
96.  
97.  
98.  
99.  
100.



the Lymphatics, - of the functions of the  
Skin - of the influence of the air upon  
the blood & of the uses of the viscera,  
are all parts of physiology - and equally  
important with ~~the~~ <sup>our</sup> knowledge  
of the circulation of the blood in <sup>teaching</sup> leading  
us to the Causes & Cure of Diseases.  
- It is true we are ignorant of the  
uses of all the different portions of the  
brain, but this does not vitiate  
against the utility of our knowledge  
of the parts of the body that have been  
named, any more than our ignorance  
of the qualities of certain unknown



*[Faint, illegible handwriting on aged paper, possibly a ledger or account book. The text is mostly obscured by fading and bleed-through from the reverse side.]*

*[Faint, illegible handwriting on the right edge of the page, possibly a continuation of the text from the main body.]*



plants, militates against our knowledge  
of the efficacy of the poppy, of Jalap,  
of Rhubarb or of the peruvian Bark.

It is said in order to depreciate  
Physiology, that Dr Haller who spent  
his life in Physiological inquiries, was  
no physician & that he was remarkably  
~~an unsuccessful physician in~~  
his practice. What proves too much  
proves nothing at all. The late Dr Chouet  
<sup>of this city</sup> was ~~one of the~~<sup>a</sup> most minute and  
correct Anatomist, and yet he was  
<sup>known to be deficient in practical</sup>  
~~not acknowledged by all the physi~~  
<sup>knowledge in medicine.</sup> His recipes and  
other prescriptions furnished matter  
for ridicule wherever they were

*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*

*[Partial view of handwritten text from the adjacent page on the right.]*



men, or mentioned, and yet who will  
say upon this account that ~~he~~<sup>in minute</sup>

A correct knowledge of anatomy is ~~not~~  
prevents a ~~man~~ physician becoming  
eminent in his profession? I might  
go on and ~~mention the names of~~  
<sup>mention the names of</sup> ~~several~~ <sup>several</sup>

eminent Chemists, & Botanists who  
have been bad physicians - and yet  
who will dare to say they were made  
so by their knowledge of Chemistry or  
Botany? - It is possible Dr Haller

was deficient in those qualities of mind  
or temper, that constitute an acute &  
sagacious physician, but it is more  
probable his ~~was~~ want of success in

*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*

*[Faint, illegible handwritten text visible along the right edge of the page.]*



his practice was occasioned by his  
permitting his physiological studies  
<sup>so far</sup> to abstract his attention from ~~his~~  
~~the practice of physic, and~~ his duties  
~~to~~ of his patients so as to prevent his  
being acquainted with the <sup>numerous & minute</sup> details that  
are necessary to constitute a great  
or successful physician.

What ever may be the <sup>issue</sup> ~~fact~~ of my  
attempts to teach physiology, I shall  
not shrink from the undertaking from  
all that has been said of its uncertainty,  
or inutilty. Indeed I consider myself  
as bound to undertake it not only  
by the duty I owe to the science of

V Simple Anatomy, or the nomenclature  
of bones, muscles, blood vessels, nerves &  
viscera, ~~is nothing but~~ may be  
compared to the Alphabet. It is by  
means of physiology that that Alphabet  
is converted into language. Again Anatomy  
may be compared to the <sup>outline</sup> lines of a <sup>Portrait</sup> picture,  
~~is~~ perfectly correct in its line and figure,  
but it is ~~while~~ physiology ~~may~~ which gives that  
picture its coloring, and its continuance.  
From this view of the importance and



Medicine, but by the respect I owe  
to the <sup>importance of the</sup> Anatomical Chair in this  
University, for if ~~life~~ <sup>the uses and</sup> ~~is not~~ <sup>functions</sup> of the parts which will  
be demonstrated to you in the Anatomical  
theatre be not explained to you as far  
as they are capable of being explained,  
all the knowledge you will acquire  
there, will ~~be~~ <sup>profit you but little</sup> ~~as useless to you~~ as phy-  
sicians. It will resemble the four  
and twenty letters of the Alphabet, lying  
<sup>unconnected</sup> ~~loose~~ ~~loosely~~ ~~together~~ upon a table. It is  
by means of physiology only that they  
can be <sup>converted into language.</sup> ~~connected together into words,~~  
~~sentences and books, as to be~~

Utility of physiology I hope ~~gent~~ you  
will ~~begin with~~ <sup>apply with</sup> ~~the~~ <sup>your</sup> ~~closest~~  
~~of attention to this branch of your studies.~~

~~I dare not promise you a completed~~  
you will see the necessity of connecting it  
with  
the studies of Anatomy. ~~And~~ Indeed they  
should always go hand in hand in  
a medical education, ~~Therefore~~ One  
remark more shall close this subject.

What is ~~your~~ the study of physiology  
or the human system is by far the  
most entertaining <sup>branch</sup> ~~part~~ of medicine.  
~~This~~ <sup>Often</sup> has been acknowledged by physi-  
cians, and ~~not only~~ but by the  
members of other professions - <sup>because the</sup>  
~~and~~ ~~goodness~~ ~~invaluable~~ it has  
been appealed to by Divines, as contain-  
= 129



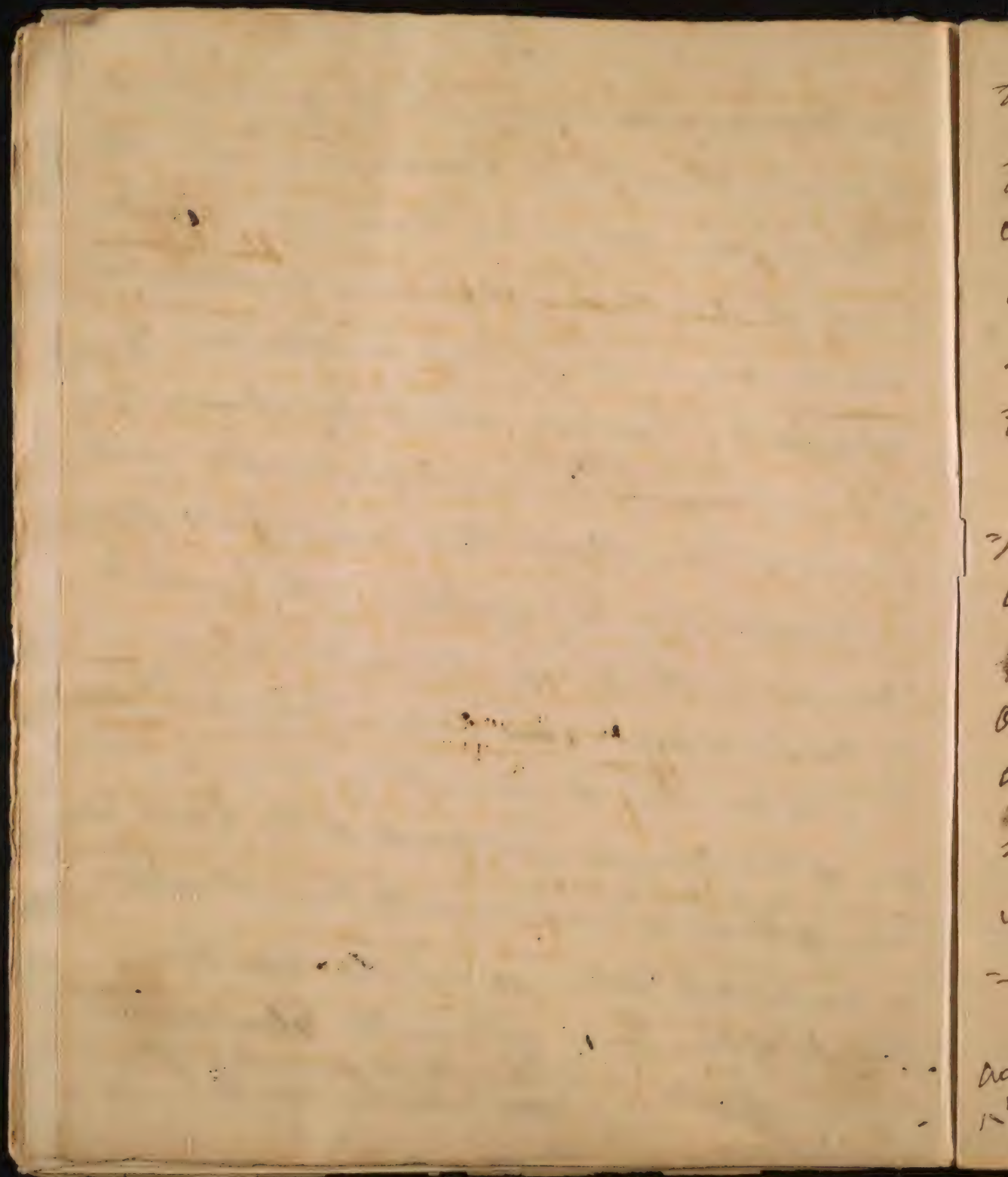
~~profitable to students and others.~~

Upon the subject of Physiology it is common  
for <sup>young</sup> gentlemen to ask what books they shall  
read. I am sorry to say I cannot recommend  
any to you that accord with the principles  
of this science which will be delivered from this Chair &  
in 8 quarto  
Dr Haller's Elementa Physiologica is an En-  
cyclopaedia upon this subject, but it is  
too extensive to be read in the course of a  
winter. There is an English Abridgement  
of it in two Vol: 8<sup>vo</sup> which may be consulted  
with advantage - Blumenbach's physiology  
is likewise worth your reading & it may be  
had at Mr Dobson's translated by J. F. Haller  
but also Richardson's the Caller ~~is worth~~  
~~your reading preferred.~~ a more minute  
& for I shall include in it the  
history of the faculties & operation of the  
human mind that is to be found in any of the  
common systems of physiology.

Stronger ~~power~~ proofs of the existence  
- power & wisdom & goodness of a  
Deity than any other part of  
the material creation.



In defending ~~the~~ theory, I have <sup>grat.</sup> admitted  
 many of them to be erroneous, but in this  
 I have conceded more than was just, for  
 most of the theories that have existed in me-  
 -dicine, are nothing but a collection of  
<sup>supposed</sup> ~~facts~~ facts. For example. Dr Boerhaave's theory  
 of fever <sup>is derived from</sup> ~~consists in~~ morbid matter, and  
 lentor in the blood. This morbid matter  
 he supposed to be expelled in the sweat &  
 sediment in the Urine which take place in  
 the crisis of fever. <sup>now</sup> and this is <sup>if I may be</sup> a ~~false~~ fact, <sup>for</sup>  
<sup>allowed the corruption</sup> the matter thus discharged, is nothing but  
 one of the component parts of the blood, ~~dis-~~  
<sup>conveyed out of the body</sup> ~~changed~~ in consequence of the restoration  
 of natural action to in the capillary  
 vessels of the skin, and in the blood vessels  
 of the kidneys. <sup>The</sup> ~~It is equally false~~  
~~now is the lentor the cause~~





that <sup>a</sup> leucor in the blood is the Cause of  
 fever, for this leucor is what we now  
 call size, or buff, and which is not the  
 Cause but the Effect of fever. <sup>Again:</sup>  
 Dr Haller <sup>in his theory of fever</sup> places the proximate Cause of it  
~~in~~ in a Spasm in the extremities of  
 the blood vessels, in every part of the body, es-  
 pecially on the Skin. Now no such Spasm  
 takes place except during the Chilly fit of a  
 fever, and it in all those fevers, <sup>which</sup> ~~it~~ come  
 on without a Chill, there is no Spasm in  
 any where. <sup>One more</sup> ~~It is~~ <sup>places</sup> ~~regards~~ Dr Brown's <sup>regards</sup>  
 the Cause of fever in debility - now this  
 is a false fact - Debility is only the predispo-  
 sition of fever - <sup>for</sup> ~~and~~ fever consists in most  
 cases, not in debility, but in morbid <sup>spontaneous</sup> ~~fast~~  
<sup>action</sup> in the blood, <sup>repels</sup> as I hope to prove to you  
 hereafter.

*[Faint, illegible handwritten text in a cursive script, likely from a 17th or 18th-century manuscript.]*

*[Faint handwritten notes or a list visible on the right margin of the adjacent page.]*



~~D'Allen has said, that~~ 16

~~I beg you would remember~~ I might thus  
go on & show that a hundred other theories  
collections of supposed facts, ~~which have~~  
~~have dignified with~~ upon particular dis-  
-cases have been called theories, which are  
not entitled to that epithet. <sup>I have said</sup> a theory is  
a general principle deduced from <sup>a number of related</sup> facts that  
are <sup>all</sup> true. ~~Now I say, the passions are~~  
~~partly stimulating & partly sedative in~~  
~~this operation upon the body. This is a theory~~  
~~upon the~~ If the facts be true, ~~the~~ the theory,  
or the general inference from them, will be  
true likewise - if otherwise, - the theory  
will be false - from this you see there  
can be no false theory, without false, or  
supposed facts. Let the inducements, ~~the~~ of phy-  
-sicians who admit facts without sufficient  
examination, or the witness of physicians



✓ discover the certainty of our Science by  
 predicting this fatal termination. Our  
 inability to cure all Diseases is a proof  
<sup>only</sup> the imperfection of medicine, but even  
 this imperfection, ~~of~~ <sup>much</sup> is less than that it  
 is supposed to be as far as it depends  
 upon a physician. For few patients  
 die of curable diseases, in which their  
 deaths may not be traced to late delays  
 in <sup>the</sup> application for medical aid - bad exer-  
 -cising, or disobedience to medical prescrip-  
 -tions.

In admitting the imperfection of medicine,  
 we place it upon a footing with all other sciences.  
 The even the Science of navigation is still imper-  
 -fect, and yet we do not upon that Account  
 reject the advantages that are we derive from  
 the magnet, the Quadrant & lunar observa-  
 -tions. ~~of the ships that are lost at sea~~



who fabricate facts, alone be blamed for all  
our false theories, ~~and~~ and if ~~on~~ these  
false theories have done mischief in medi-  
-cine, ~~but~~ those physicians only be blamed  
who have furnished the false foundations  
for them. It is to be <sup>regretted</sup> ~~lamented~~ that the <sup>the</sup>

~~The~~ ~~the~~ false errors & fluctuations of ~~the~~  
theories, erected upon ~~an~~ <sup>improved</sup> facts, have  
led to charges against the certainty &  
even usefulness of the Science of medicine.  
Of its usefulness, I shall say nothing at  
present. Of its <sup>the</sup> ~~uncertainty~~ <sup>former charge against it,</sup>  
that ~~the~~ its imperfection has been mistaken  
for its certainty <sup>instances</sup> ~~uncertainty~~. The <sup>cases</sup> in <sup>which</sup>  
physicians mistake a disease, or form a  
wrong judgement of its issue in life, or  
death, are very few. ~~that~~ In those cases  
which they are unable to cure, they still

19  
— of the  
~~perhaps very few~~ ships that are lost, only  
meet with accidents at sea, from the Uncer-  
-certainty of the Science of Navigation. Most  
of them are, like the lapses of patients in  
curable diseases, the result of ignorance, or  
carelessness. They <sup>prove the imperfection</sup> ~~call in question the per-~~  
~~fection only~~ — not the Uncertainty of the  
Science of Navigation. —



~~But Physiology~~ - Pathology  
"upon the subjects of ~~physiology~~  
and Therapeutics, I know of no  
Systematic books that I can recom-  
mend to your personal. They are  
all built upon theories which I  
~~are~~ which I do believe, and  
<sup>ch</sup> are contrary to the principles  
upon those subjects which I shall  
teach from this Chair. ?

Upon the practice of physic  
there are many excellent practical  
books which I shall mention to  
you when I come to that part





of our course. It is one, and but  
one of the modes of acquiring a  
knowledge of diseases. There are two  
other modes of acquiring that  
knowledge. These are from ~~books~~  
public lectures, and = go to p: =

















